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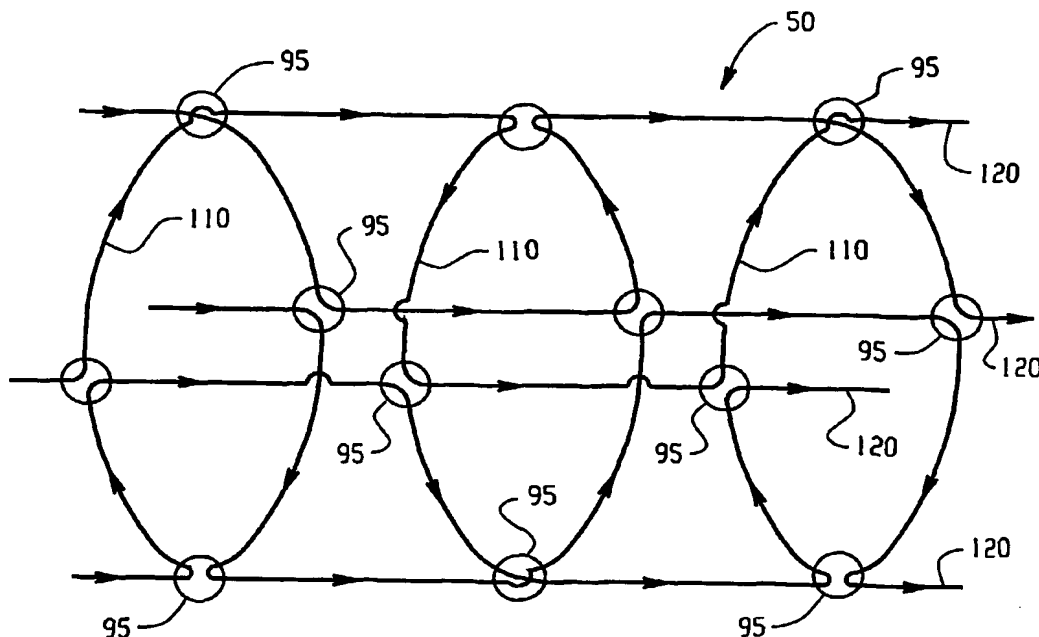
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- (71) Applicant (for all designated States except US): **KONINKLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]**; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **MARTIN, Alastair, J.** [CA/US]; 595 Miner Road, Cleveland, OH 44143 (US).
- (74) Common Representative: **KONINKLIJKE PHILIPS ELECTRONICS N.V.**; c/o LUNDIN, Thomas, M., 595 Miner Road, Cleveland, OH 44143 (US).
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- Published:
— with international search report

[Continued on next page]

(54) Title: **MAGNETIC RESONANCE COMPATIBLE STENT**



(57) Abstract: An intravascular stent (50) is provided for use in conjunction with a magnetic resonance imaging system. The stent is constructed to minimize the radio-frequency cage effect which results from currents being induced in stents when subjected to magnetic resonance related radio frequency signals. The stent includes a mesh of electrically conductive material and a non-conductive material disposed within the mesh for connecting the mesh in a generally tubular arrangement such that a net current flowing through the mesh is approximately zero and the RF cage effect is minimized.



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 A61F2/06

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 Minimum documentation searched (classification system followed by classification symbols)
 IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

 Electronic data base consulted during the International search (name of data base and, where practical, search terms used)
 EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/188345 A1 (PACETTI STEPHEN DIRK) 12 December 2002 (2002-12-12) paragraphs '0007! - '0009!, '0011! - '0013!, '0035! - '0038! figures 5-7	1-4, 6-10, 12, 14
X	WO 02/47575 A (ANGIOMED AG ; KUEHNE TITUS (DE)) 20 June 2002 (2002-06-20) page 12, line 20 - page 14, line 31 figures 10-13	1, 3-6, 9-14, 16

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
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- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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- *&* document member of the same patent family

Date of the actual completion of the international search

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Name and mailing address of the ISA

 European Patent Office, P.B. 5818 Patentlaan 2
 NL - 2280 HV Rijswijk
 Tel. (+31-70) 340-2040, Tx. 31 65 i epo nl,
 Fax: (+31-70) 340-3016

Authorized officer

Skorovs, P

INTERNATIONAL SEARCH REPORT

1

International application No.
PCT/IB 03/06365

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 15
because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Diagnostic method practised on the human or animal body
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002188345	A1	12-12-2002	NONE	
WO 0247575	A	20-06-2002	WO 0247575 A2	20-06-2002
			EP 1341487 A2	10-09-2003
			JP 2004520100 T	08-07-2004
			US 2004093075 A1	13-05-2004